Ethernet Extension Experts

Enable-IT 864 Mini
Ethernet Extender DSLAM
Quickstart Guide

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INSTALLING THE 864 EXTENDED ETHERNET DSLAM

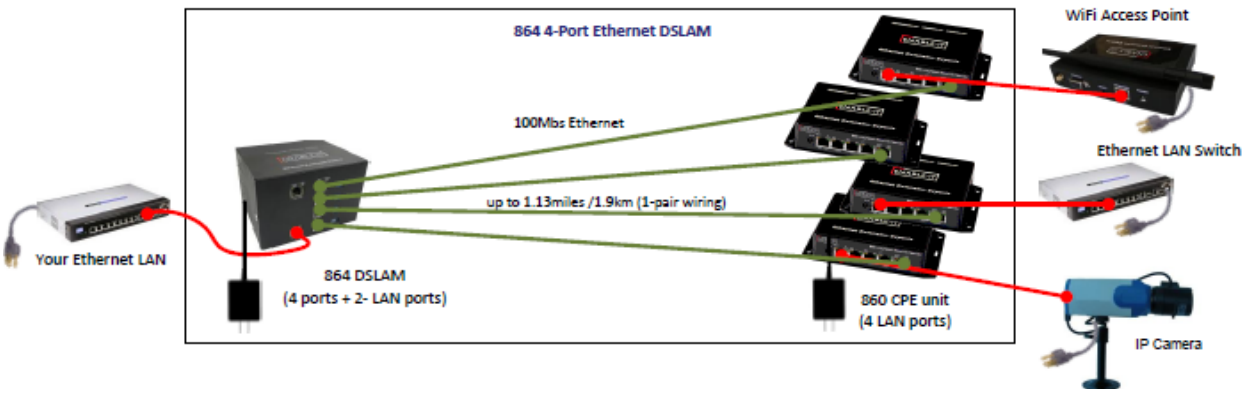
Installation

The Enable-IT 864 Extended Ethernet DSLAM can support (4) 860 CPE units up to 6,000ft or 1,828m over 1-pair copper wiring end to end.

- Total distance limitation of 6,000ft or 1,829m from end to end.
- 1 Pair copper wiring .30 Gage or better cabling is required for the 864 Interlink ports transmission.

For the Interlink wiring you can use either RJ-45 or RJ-11 connectors. Crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins (1 & 2) straight through. This will deliver 1 Voice line, Ethernet Data. If you desire to use the second voice line, you can also use pins (3 & 6) on each end straight through.

The 864 Interlink port (RJ-45 interface) carries this 1-pair signaling over the RJ-45 pins (1 & 2) - used for transport for both voice and data. If you use more than 1-pair of wiring such as a CAT5 segment, the RJ-45 pins (3 & 4) are used for Voice line 2 and the remaining pins 4,5,7 & 8 are can transport native PoE or are unused. As an option the RJ-11 interface on the side of the 864 for use with existing RJ-11 wiring. The RJ-11 dongles do not transport PoE currently but can be easily added if needed on request at time of ordering.



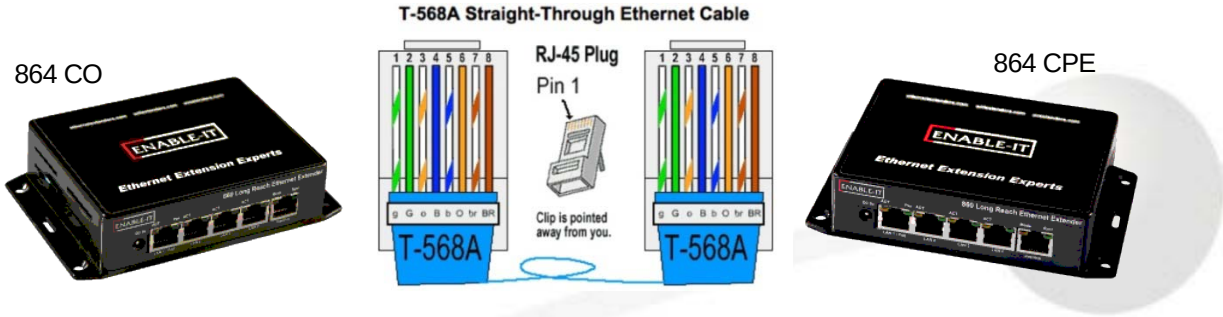
Perform an out of the box Test

We highly recommend a quick test to ensure the working order of your 864 mini DSLAM to your 860 CPE units. To do this, please use an Ethernet patch cord and attach to any 864 Interlink port to an 860 CPE unit. Power up both devices. The Green Sync LEDs will start flickering slowly and then fast as the units talk to eachother. After a few seconds you should see a solid Green Interlink Sync LED on each unit to confirm a link is established. This confirms basic proper operation of the units. Next for a more detailed test and to confirm your LAN Equipment works with the 864 Mini DSLAM, connect your local Ethernet LAN to the 864 LAN port 1 or LAN 2 and remote device to any 860 CPE LAN ports and test connectivity. The Green Interlink Sync LED will pulse rapidly as it detects traffic.

LED indicators will provide visual operational status of the 864 units.

Sync - Slow to fast flicker on power up – indicates negotiation of a link.
Solid Green LED indicates link established and rapid pulse is traffic.
Pwr - Solid Green LED indicates that both units are receiving 5v power.
Mode - Solid Yellow LED on CPE unit only – No LED lit on CO
ACT - Yellow LEDs – Lit solid indicates the presence of local LAN
– Blinking indicates the presence of local LAN traffic

Dongle pins: DSL port center pair (2&3) = Data
Phone port –center pair (2&3) = Voice 1 Outside pair (1&4) = Voice 2



Performance Settings

A DIP Switch is provided on the left side of each unit for setting line performance attributes.

If the Interlink cabling is less than 1,500ft / 1,067m - Set DIP Switch 3 up to the OFF position. This optimizes faster symmetrical throughput.

Default DIP settings
864 CPE – All down set in the ON position
864 CO – DIP position 1 up (OFF)
DIPs 2-4 down (ON)

If the Interlink cabling is over 1,500ft 1,067m - the DIP switch 3 must be down (set to ON) position for the unit to work properly.